

MMM		MMM	TTTTTTTTTTTTTTTT	AAAAAAAAA		AAAAAAAAA		CCCCCCCCCCCC	PPPPPPPPPPPP	
MMM		MMM	TTTTTTTTTTTTTTTT	AAAAAAAAA		AAAAAAAAA		CCCCCCCCCCCC	PPPPPPPPPPPP	
MMM		MMM	TTTTTTTTTTTTTTTT	AAAAAAAAA		AAAAAAAAA		CCCCCCCCCCCC	PPPPPPPPPPPP	
MMMMMM	MMMMMM		TTT	AAA	AAA	AAA	AAA	CCC	PPP	PPP
MMMMMM	MMMMMM		TTT	AAA	AAA	AAA	AAA	CCC	PPP	PPP
MMMMMM	MMMMMM		TTT	AAA	AAA	AAA	AAA	CCC	PPP	PPP
MMM	MMM	MMM	TTT	AAA	AAA	AAA	AAA	CCC	PPP	PPP
MMM	MMM	MMM	TTT	AAA	AAA	AAA	AAA	CCC	PPP	PPP
MMM	MMM	MMM	TTT	AAA	AAA	AAA	AAA	CCC	PPP	PPP
MMM		MMM	TTT	AAA	AAA	AAA	AAA	CCC	PPP	PPP
MMM		MMM	TTT	AAA	AAA	AAA	AAA	CCC	PPPPPPPPPPPP	
MMM		MMM	TTT	AAA	AAA	AAA	AAA	CCC	PPPPPPPPPPPP	
MMM		MMM	TTT	AAA	AAA	AAA	AAA	CCC	PPPPPPPPPPPP	
MMM		MMM	TTT	AAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAA	CCC	PPP	
MMM		MMM	TTT	AAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAA	CCC	PPP	
MMM		MMM	TTT	AAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAA	CCC	PPP	
MMM		MMM	TTT	AAA	AAA	AAA	AAA	CCC	PPP	
MMM		MMM	TTT	AAA	AAA	AAA	AAA	CCC	PPP	
MMM		MMM	TTT	AAA	AAA	AAA	AAA	CCC	PPP	
MMM		MMM	TTT	AAA	AAA	AAA	AAA	CCC	PPP	
MMM		MMM	TTT	AAA	AAA	AAA	AAA	CCC	PPP	
MMM		MMM	TTT	AAA	AAA	AAA	AAA	CCC	PPP	
MMM		MMM	TTT	AAA	AAA	AAA	AAA	CCCCCCCCCCCC	PPP	
MMM		MMM	TTT	AAA	AAA	AAA	AAA	CCCCCCCCCCCC	PPP	
MMM		MMM	TTT	AAA	AAA	AAA	AAA	CCCCCCCCCCCC	PPP	

FFFFFFFFF	IIIIII	NN	NN	DDDDDDDD	
FFFFFFFFF	IIIIII	NN	NN	DDDDDDDD	
FF	II	NN	NN	DD	DD
FF	II	NN	NN	DD	DD
FF	II	NNNN	NN	DD	DD
FF	II	NNNN	NN	DD	DD
FFFFFFFFF	II	NN	NN	DD	DD
FFFFFFFFF	II	NN	NN	DD	DD
FF	II	NN	NNNN	DD	DD
FF	II	NN	NNNN	DD	DD
FF	II	NN	NN	DD	DD
FF	II	NN	NN	DD	DD
FF	IIIIII	NN	NN	DDDDDDDD	
FF	IIIIII	NN	NN	DDDDDDDD	

LL	IIIIII	SSSSSSSS
LL	IIIIII	SSSSSSSS
LL	II	SS
LL	II	SS
LL	II	SS
LL	II	SS
LL	II	SSSSSS
LL	II	SSSSSS
LL	II	SS
LL	II	SS
LL	II	SS
LL	II	SS
LLLLLLLLL	IIIIII	SSSSSSSS
LLLLLLLLL	IIIIII	SSSSSSSS

```
0001 0
0002 0 MODULE FIND ( LANGUAGE ( BLISS32 ),
0003 0 IDENT = 'V04-000'
0004 0 ) =
0005 1 BEGIN
0006 1
0007 1 *****
0008 1 *
0009 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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0026 1 *
0027 1 *
0028 1 *****
0029 1
0030 1 ++
0031 1
0032 1 FACILITY: MTAACP
0033 1
0034 1 ABSTRACT:
0035 1 This module finds a file by file name string.
0036 1
0037 1 ENVIRONMENT:
0038 1
0039 1 Starlet operating system, including privileged system services
0040 1 and internal exec routines.
0041 1
0042 1 --
0043 1
0044 1
0045 1
0046 1 AUTHOR: D. H. GILLESPIE, CREATION DATE: 25-MAY-77 15:20
0047 1
0048 1 MODIFIED BY:
0049 1
0050 1 V03-002 MMD0283 Meg Dumont, 23-Mar-1984 10:33
0051 1 Fix to linkage of PARSE_FID.
0052 1
0053 1 V03-001 MMD0157 Meg Dumont, 26-Apr-1983 9:18
0054 1 Add support for long file names. Changed the maximum size
0055 1 file name one can have to be the symbol FILE_SPEC_MAX, which
0056 1 is defined in MTADEF.B32.
0057 1
```


FIND
V04-000

E 10
16-Sep-1984 02:18:11
14-Sep-1984 12:46:39

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(1)

```

58      0058 1  V02-009 DMW00073      David Michael Walp      28-Jan-1981
59      0059 1  Fixed wildcard characters in quoted string bug
60      0060 1
61      0061 1  V02-008 DMW00068      David Michael Walp      11-Jan-1981
62      0062 1  Added support for 17 ANSI 'a' characters thru QIO
63      0063 1  filename parameters
64      0064 1
65      0065 1  V02-007 DMW00062      David Michael Walp      18-Dec-1981
66      0066 1  Rewrite to support 17 ANSI 'a' characters file names
67      0067 1
68      0068 1  V02-006 DMW00006      David Michael Walp      22-Jan-1981
69      0069 1  Added code for complete wild card support.  Changes
70      0070 1  in routine FIND_FILE.  Replaced direct compares of
71      0071 1  the file name and type via CH$EQL with the new
72      0072 1  FMG$MATCH_NAME procedure and removed old wild code.
73      0073 1
74      0074 1  V02-005 REFORMAT      Maria del C. Nasr      30-Jun-1980
75      0075 1
76      0076 1  **
77      0077 1
78      0078 1  LIBRARY 'SYS$LIBRARY:LIB.L32';
79      0079 1
80      0080 1  REQUIRE 'SRC$:MTADEF.B32';
81      0464 1
82      0465 1  FORWARD ROUTINE
83      0466 1  FIND_FILE      : COMMON_CALL NOVALUE,  ! find file by file name string
84      0467 1  CLEAR_ST_SEARCH : COMMON_CALL NOVALUE;  ! clear start of search
85      0468 1
86      0469 1  LINKAGE
87      0470 1  L_MATCH_NAME = JSB ( REGISTER = 2, REGISTER = 3, REGISTER = 4, REGISTER = 5 )
88      0471 1  : NOTUSED ( 10, 11 );
89      0472 1
90      0473 1
```

```

92 0474 1 GLOBAL ROUTINE FIND_FILE : COMMON_CALL NOVALUE =
93 0475 1
94 0476 1 |++
95 0477 1
96 0478 1 FUNCTIONAL DESCRIPTION:
97 0479 1 This routine finds a file by file name string.
98 0480 1
99 0481 1 CALLING SEQUENCE:
100 0482 1 FIND ( )
101 0483 1
102 0484 1 INPUT PARAMETERS:
103 0485 1 none
104 0486 1
105 0487 1 IMPLICIT INPUTS:
106 0488 1 LOCAL_FIB, CURRENT_VCB
107 0489 1
108 0490 1 OUTPUT PARAMETERS:
109 0491 1 none
110 0492 1
111 0493 1 IMPLICIT OUTPUTS:
112 0494 1 none
113 0495 1
114 0496 1 ROUTINE VALUE:
115 0497 1 NONE
116 0498 1
117 0499 1 SIDE EFFECTS:
118 0500 1 If file found, HDR1, HDR2, HDR3 and HDR4 will be read in or defaulted
119 0501 1 result file name string and length returned to user.
120 0502 1
121 0503 1 USER ERRORS:
122 0504 1 $$$_NOSUCHFILE - file not found
123 0505 1 $$$_RESULTOVF - result string overflow
124 0506 1 --
125 0507 1
126 0508 2 BEGIN
127 0509 2
128 0510 2 EXTERNAL REGISTER
129 0511 2 COMMON_REG;
130 0512 2
131 0513 2 EXTERNAL
132 0514 2 LOCAL_FIB : BBLOCK; ! copy of user's fib
133 0515 2
134 0516 2 EXTERNAL ROUTINE
135 0517 2 FORMAT_FID : COMMON_CALL, ! format fid
136 0518 2 FMG$MATCH_NAME : L_MATCH_NAME, ! match general wild card str
137 0519 2 GET_START_HDR : L$GET_START_HDR, ! get hdrs to start search on
138 0520 2 PARSE_FID : COMMON_CALL, ! parse FID fields in HDR1 and HDR4
139 0521 2 PARSE_PATTERN_SPEC : COMMON_CALL, ! parse pattern spec
140 0522 2 READ_HDR : COMMON_CALL, ! read headers
141 0523 2 RESULTANT_STRING : COMMON_CALL NOVALUE, ! return resultant string
142 0524 2 REWIND_VOC_SET : COMMON_CALL, ! rewind volume set
143 0525 2 SPACE_EOF : COMMON_CALL, ! space to end of file
144 0526 2 SYSS$F$A0 : ADDRESSING MODE ( ABSOLUTE ), ! format ASCII output
145 0527 2 WRAP_AROUND : L$WRAP_AROUND; ! wrap around to beginning of
146 0528 2 ! volume set
147 0529 2
148 0530 2 LITERAL
WILD_QUOTED = 0, ! bit layout for FILE_SPEC_BITS
```

```
149 0531 2          PATTERN_VMS_SPEC = 1,          | :
150 0532 2          TAPE_ID_VMS_SPEC = 2,          | :
151 0533 2
152 0534 2          NO_VMS = 0,                    | meanings of the 2nd and 3rd
153 0535 2          PAT_VMS = 1,                    | bits in FILE_SPEC_BITS
154 0536 2          TAPE_VMS = 2,                    | :
155 0537 2          BOTH_VMS = 3;                    | :
156 0538 2
157 0539 2 LOCAL
158 0540 2          FILE_SPEC_BITS : DITVECTOR [ 3 ], | info about the file specs
159 0541 2          FID_VER : WORD,                   | HDR1 FID binary version
160 0542 2          PAT_VER : WORD,                   | Pattern binary fid version
161 0543 2
162 0544 2          ! descriptors and buffer for the file spec string
163 0545 2          ! size of FILE_SPEC_MAX to include VMS long filenames as well
164 0546 2          ! as ANSI file names
165 0547 2
166 0548 2          FID_DESC : VECTOR [ 2, LONG ],
167 0549 2          FID_STR : VECTOR [ FILE_SPEC_MAX, BYTE ],
168 0550 2          PAT_DESC : VECTOR [ 2, LONG ],
169 0551 2          PAT_STR : VECTOR [ FILE_SPEC_MAX, BYTE ];
170 0552 2
171 0553 2 BIND
172 0554 2          FILENAMES_TYPES = FILE_SPEC_BITS : BLOCK;
173 0555 2
174 0556 2
175 0557 2 MACRO
176 0558 2          BITS_2_3 = 0, 1, 2, 0%;
177 0559 2
178 0560 2          ! if this is not a wild card lookup then zero context
179 0561 2          ! :
180 0562 2          IF NOT .LOCAL_FIB [ FIB$V_WILD ] THEN LOCAL_FIB [ FIB$L_WCC ] = 0;
181 0563 2
182 0564 2          ! if beginning of search check for rewind switch
183 0565 2          ! :
184 0566 2          IF .LOCAL_FIB [ FIB$L_WCC ] EQL 0
185 0567 2          THEN
186 0568 2              BEGIN
187 0569 2
188 0570 2                  IF .LOCAL_FIB [ FIB$V_REWIND ] EQL 1 THEN REWIND_VOL_SET ( );
189 0571 2
190 0572 2                  ! clear start of search file ID
191 0573 2                  ! :
192 0574 2                  KERNEL_CALL ( CLEAR_ST_SEARCH );
193 0575 2                  END
194 0576 2
195 0577 2          ELSE
196 0578 2              BEGIN
197 0579 2
198 0580 2                  ! If either of these two values are zero then the user has not preceded
199 0581 2                  ! this call with a first time thru lookup.
200 0582 2                  ! :
201 0583 2                  IF .CURRENT_VCB [ VCB$L_CUR_FID ] EQL 0
202 0584 2                  OR .CURRENT_VCB [ VCB$L_START_FID ] EQL 0
203 0585 2                  THEN ERR_EXIT ( SSS_BADPARAM );
204 0586 2
205 0587 2                  ! if not first time through , then don't include current file in search
```



```

206      0588      3      |
207      0589      3      | IF NOT .CURRENT_VCB [ VCB$V_LOGICEOVS ] THEN SPACE_EOF ( );
208      0590      3      |
209      0591      3      | END;
210      0592      3      |
211      0593      3      | | position to first file and read the headers
212      0594      3      |
213      0595      3      | IF NOT GET_START_HDR ( )
214      0596      3      | THEN
215      0597      3      |
216      0598      3      | |   tm, so at logical end of volume set
217      0599      3      | |   continue search at beginning of tape unless the start of search was
218      0600      3      | |   the beginning
219      0601      3      |
220      0602      3      | IF NOT WRAP_AROUND ( ) THEN ERR_EXIT ( SSS_NOSUCHFILE );
221      0603      3      |
222      0604      3      | | if dummy file, deny its existence
223      0605      3      |
224      0606      3      | IF .CURRENT_VCB [ VCB$W_CUR_NUM ] EQLU 0 THEN ERR_EXIT ( SSS_NOSUCHFILE );
225      0607      3      |
226      0608      3      | | if first time through save start context else check not at beginning of
227      0609      3      | | search
228      0610      3      |
229      0611      3      | IF .LOCAL_FIB [ FIB$L_WCC ] EQL 0
230      0612      3      | THEN
231      0613      3      |
232      0614      3      | |   convert file seq and section number
233      0615      3      | |
234      0616      3      | |   KERNEL_CALL ( FORMAT_FID, CURRENT_VCB [ VCB$W_START_NUM ] )
235      0617      3      |
236      0618      3      | ELSE
237      0619      3      |
238      0620      3      | |   possible end of search
239      0621      3      | |
240      0622      3      | |   IF .CURRENT_VCB [ VCB$L_CUR_FID ] EQL .CURRENT_VCB [ VCB$L_START_FID ]
241      0623      3      | |   THEN ERR_EXIT ( SSS_NOSUCHFILE );
242      0624      3      |
243      0625      3      | | initialize buffer descriptors with constants
244      0626      3      | |
245      0627      3      | | PAT_DESC [ 0 ] = FILE_SPEC_MAX;
246      0628      3      | | PAT_DESC [ 1 ] = PAT_STR;
247      0629      3      | | FID_DESC [ 1 ] = FID_STR;
248      0630      3      |
249      0631      3      | | parse the pattern string
250      0632      3      | |
251      0633      3      | | FILE_SPEC_BITS = PARSE_PATTERN_SPEC ( PAT_DESC, PAT_VER );
252      0634      3      | |
253      0635      3      | | loop until a match or we have searched them all
254      0636      3      | |
255      0637      3      | | WHILE 1
256      0638      3      | | DO
257      0639      3      | | BEGIN
258      0640      3      | |
259      0641      3      | | | reset the size of the FID buffer
260      0642      3      | | | parse the FID of the current file
261      0643      3      | |
262      0644      3      | | FID_DESC [ 0 ] = FILE_SPEC_MAX;
```

FILE_SPEC_BITS [TAPE_ID_VMS_SPEC] = PARSE_FID (FID_DESC,FID_VER);

! test if the current file spec fits the pattern spec, exitloop
and return if we have a match

match name and type		Tape File ID Field Value Quoted	VMS
Pattern	Quoted	Strings Equal	String Equal (in case
File			VMS spec in quotes)
Spec			
Value	VMS	Only *.* or *.	Normal wildcard match

IF (CASE .FILENAMES_TYPES [BITS_2_3] FROM 0 TO 3 OF

```
SET
[ NO_VMS ] : CH$EQL ( .FID_DESC[0], .FID_DESC[1],
                    .PAT_DESC[0], .PAT_DESC[1], ' ' );
[ PAT_VMS ] : .FILE_SPEC_BITS [ WILD_QUOTED ];
[ TAPE_VMS ] : CH$EQL ( .FID_DESC[0], .FID_DESC[1],
                    .PAT_DESC[0], .PAT_DESC[1], ' ' );
[ BOTH_VMS ] : FMG$MATCH_NAME ( .FID_DESC[0], .FID_DESC[1],
                                .PAT_DESC[0], .PAT_DESC[1] )
TES )
```

```
AND
(
  .LOCAL_FIB [ FIB$V_ALLVER ] ! wild version
OR ( .PAT_VER LEQU 0 ) ! OR first or last version
OR ( .PAT_VER EQLU .FID_VER ) ! OR same version
)
```

THEN EXITLOOP;

! no match, space to the end of this file and read the header for the
next file, also test if have looked at all files

SPACE_EOF ();

IF NOT READ_HDR ()

THEN

IF NOT WRAP_AROUND () THEN ERR_EXIT (\$\$\$_NOSUCHFILE);

IF .CURRENT_VCB [VCB\$S_CUR_FID] EQL .CURRENT_VCB [VCB\$S_START_FID]
THEN ERR_EXIT (\$\$\$_NOSUCHFILE);

END;

! end of while loop

! have file match setup to write back FID
! return File Identifier Number in File Information Block

FORMAT_FID (LOCAL_FIB [FIB\$W_FID_NUM]);

LOCAL_FIB [FIB\$W_FID_RVN] = .CURRENT_VCB [VCB\$B_CUR_RVN] ;

! note through lookup at least once

```
IF .LOCAL_FIB [ FIB$V_WILD ]
THEN LOCAL_FIB [ FIB$C_WCC ] = 1
ELSE LOCAL_FIB [ FIB$C_WCC ] = 0;
```


FIND
V04-000

J 10
16-Sep-1984 02:18:11
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: 320
: 321
: 322
: 323
: 324
: 325
: 326
: 327
: 328
0702 2
0703 2
0704 2
0705 2
0706 2
0707 2
0708 2
0709 2
0710 1

! return resultant string
RESULTANT_STRING (.FILE_SPEC BITS [TAPE_ID_VMS_SPEC],
 .FID_DESC [0],
 .FID_DESC [1],
 .FID_VER);

END;

! end of routine FIND_FILE

.TITLE FIND
.IDENT \V04-000\

.EXTRN LOCAL_FIB, FORMAT_FID
.EXTRN FMG\$MATCH_NAME, GET_START_HDR
.EXTRN PARSE_FID, PARSE_PATTERN_SPEC
.EXTRN READ_HDR, RESULTANT_STRING
.EXTRN REWIND_VOL_SET, SPACE_EOF
.EXTRN SYSS\$FAD, WRAP_AROUND
.EXTRN SYSS\$CMKRNL

.PSECT \$CODE\$,NOWRT,2

.ENTRY FIND_FILE, Save R2,R3,R4,R5,R6,R7,R8,R9,R10 ; 0474
MOVAB @#SYSS\$CMKRNL, R9
MOVAB LOCAL_FIB+16, R8
MOVAB -184(SP), SP
BLBS LOCAL_FIB+21, 1\$; 0562
CLRL LOCAL_FIB+16
TSTL LOCAL_FIB+16 ; 0566
BNEQ 3\$
BBC #3, LOCAL_FIB, 2\$; 0570
CALLS #0, REWIND_VOL_SET
CLRL -(SP) ; 0574
PUSHL SP
PUSHAB CLEAR_ST_SEARCH
CALLS #3, SYSS\$CMKRNL
BRB 6\$; 0566
TSTL 36(CURRENT_VCB) ; 0583
BEQL 4\$
TSTL 40(CURRENT_VCB) ; 0584
BNEQ 5\$
CHMU #20 ; 0585
BBS #1, 11(CURRENT_VCB), 6\$; 0589
CALLS #0, SPACE_EOF
BSBW GET_START_HDR ; 0595
BLBS R0, 7\$
BSBW WRAP_AROUND ; 0602
BLBS R0, 7\$
CHMU #2320
TSTW 36(CURRENT_VCB) ; 0606
BNEQ 8\$
CHMU #2320
TSTL LOCAL_FIB+16 ; 0611
BNEQ 9\$
PUSHAB 40(CURRENT_VCB) ; 0616

05 00000000G 9F 07FC 00000
58 0000G CF 9E 00002
5E FF48 CE 9E 0000E
02 05 A8 E8 00013
68 D4 00017
68 D5 00019 1\$:
17 12 0001B
03 E1 0001D
00 FB 00022
7E D4 00027 2\$:
5E DD 00029
CF 9F 0002B
69 03 FB 0002F
16 11 00032
24 AB D5 00034 3\$:
05 13 00037
28 AB D5 00039
02 12 0003C
14 BF 0003E 4\$:
05 01 E0 00040 5\$:
00 FB 00045
0000G 30 0004A 6\$:
50 E8 0004D
0000G 30 00050
50 E8 00053
0910 8F BF 00056
24 AB B5 0005A 7\$:
04 12 0005D
0910 8F BF 0005F
68 D5 00063 8\$:
10 12 00065
28 AB 9F 00067

				01 DD 0006A	PUSHL #1	
				5E DD 0006C	PUSHL SP	
		0000G		CF 9F 0006E	PUSHAB FORMAT_FID	
	69			04 FB 00072	CALLS #4, SYSSCMKRN	
				0B 11 00075	BRB 10\$	
	28 AB	24		AB D1 00077 9\$:	CMPL 36(CURRENT_VCB), 40(CURRENT_VCB)	0622
				04 12 0007C	BNEQ 10\$	
		0910		8F BF 0007E	CHMU #2320	0623
	58 AE	4F		8F 9A 00082 10\$:	MOVZBL #79, PAT_DESC	0627
	5C AE	08		AE 9E 00087	MOVAB PAT_STR, PAT_DESC+4	0628
	FC AD	60		AE 9E 0008C	MOVAB FID_STR, FID_DESC+4	0629
				5E DD 00091	PUSHL SP	0633
		5C		AE 9F 00093	PUSHAB PAT_DESC	
	0000G			02 FB 00096	CALLS #2, PARSE_PATTERN_SPEC	
	56			50 90 0009B	MOVB R0, FILE_SPEC_BITS	
	F8 AD	4F		8F 9A 0009E 11\$:	MOVZBL #79, FID_DESC	0644
		04		AE 9F 000A3	PUSHAB FID_VER	0645
		F8		AD 9F 000A6	PUSHAB FID_DESC	
	0000G			02 FB 000A9	CALLS #2, PARSE_FID	
	56			50 F0 000AE	INSV R0, #2, #T, FILE_SPEC_BITS	
	57			01 EF 000B3	EXTZV #1, #2, FILENAMES_TYPES, R7	0659
	001D			57 CF 000B8	CASEL R7, #0, #3	
		000F		000BC 12\$:	.WORD 14\$-12\$,-	
					13\$-12\$,-	
					14\$-12\$,-	
					15\$-12\$	
				05 11 000C4	BRB 14\$	0661
				56 E9 000C6 13\$:	BLBC FILE_SPEC_BITS, 17\$	0663
				1C 11 000C9	BRB 16\$	
	58 AE	20		AD 2D 000CB 14\$:	CMPCS FID_DESC, @FID_DESC+4, #32, PAT_DESC, -	0664
				5C BE 000D3	@PAT_DESC+4	
				1F 12 000D5	BNEQ 17\$	
				0E 11 000D7	BRB 16\$	
				58 AE 7D 000D9 15\$:	MOVQ PAT_DESC, R4	0666
				F8 AD 7D 000DD	MOVQ FID_DESC, R2	
				0000G 30 000E1	BSBW FMG\$MATCH_NAME	
				50 E9 000E4	BLBC R0, 17\$	
				03 E0 000E7 16\$:	BBS #3, LOCAL_FIB+20, 19\$	0670
				6E B5 000EC	TSTW PAT_VER	0671
				2A 13 000EE	BEQL 19\$	
				6E B1 000F0	CMPW PAT_VER, FID_VER	0672
				24 13 000F4	BEQL 19\$	
				00 FB 000F6 17\$:	CALLS #0, SPACE_EOF	0680
				00 FB 000FB	CALLS #0, READ_HDR	0681
				50 E8 00100	BLBS R0, 18\$	
				0000G 30 00103	BSBW WRAP_AROUND	0683
				50 E8 00106	BLBS R0, 18\$	
				0910 8F BF 00109	CHMU #2320	
				24 AB D1 0010D 18\$:	CMPL 36(CURRENT_VCB), 40(CURRENT_VCB)	0685
				8A 12 00112	BNEQ 11\$	
				0910 8F BF 00114	CHMU #2320	0686
				84 11 00118	BRB 11\$	0637
				F4 A8 9F 0011A 19\$:	PUSHAB LOCAL_FIB+4	0694
				01 FB 0011D	CALLS #1, FORMAT_FID	
	0000G			2F AB 9B 00122	MOVZBW 47(CURRENT_VCB), LOCAL_FIB+8	0695
	F8			05 A8 E9 00127	BLBC LOCAL_FIB+21, 20\$	0699
				01 D0 0012B	MOVL #1, LOCAL_FIB+16	0700

FIND
V04-000

L 10
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7E

56

0000G

7E
7E
01
CF

04
F8

02 11 0012E
68 D4 00130 20\$:
AE 3C 00132 21\$:
AD 7D 00136
02 EF 0013A
04 FB 0013F
04 00144

BRB 21\$
CLRL LOCAL FIB+16
MOVZWL FID-VER, -(SP)
MOVQ FID-DESC, -(SP)
EXTZV #2, #1, FILE_SPEC BITS, -(SP)
CALLS #4, RESULTANT_STRING
RET

: 0701
: 0708
: 0706
: 0705
: 0710

; Routine Size: 325 bytes, Routine Base: \$CODE\$ + 0000

FIND
V04-000

M 10
16-Sep-1984 02:18:11
14-Sep-1984 12:46:39

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[MTAACP.SRC]FIND.B32;1 Page 10
(3)

```

: 330      0711 1 ROUTINE CLEAR_ST_SEARCH : COMMON_CALL NOVALUE =
: 331      0712 1
: 332      0713 1 ++
: 333      0714 1
: 334      0715 1 FUNCTIONAL DESCRIPTION:
: 335      0716 1     This routine clears the file id indicating the start of this search.
: 336      0717 1
: 337      0718 1 CALLING SEQUENCE:
: 338      0719 1     CLEAR_ST_SEARCH ( ), called in kernel mode
: 339      0720 1
: 340      0721 1 INPUT PARAMETERS:
: 341      0722 1     none
: 342      0723 1
: 343      0724 1 IMPLICIT INPUTS:
: 344      0725 1     CURRENT_VCB - address of current volume control block
: 345      0726 1
: 346      0727 1 OUTPUT PARAMETERS:
: 347      0728 1     none
: 348      0729 1
: 349      0730 1 IMPLICIT OUTPUTS:
: 350      0731 1     CURRENT_VCB [ VCB$START_FID ] cleared
: 351      0732 1
: 352      0733 1 ROUTINE VALUE:
: 353      0734 1     none
: 354      0735 1
: 355      0736 1 SIDE EFFECTS:
: 356      0737 1     none
: 357      0738 1
: 358      0739 1 USER ERRORS:
: 359      0740 1     none
: 360      0741 1
: 361      0742 1 --
: 362      0743 1
: 363      0744 2 BEGIN
: 364      0745 2
: 365      0746 2 EXTERNAL REGISTER
: 366      0747 2     COMMON_REG;
: 367      0748 2
: 368      0749 2 CURRENT_VCB [ VCB$START_FID ] = 0;
: 369      0750 1 END;
```

```

                                0000 00000 CLEAR_ST_SEARCH:
                                -WORD  Save nothing
                                28 AB D4 00002 CLRL 40(CURRENT_VCB)
                                04 00005 RET
                                : 0711
                                : 0749
                                : 0750
```

; Routine Size: 6 bytes, Routine Base: \$CODE\$ + 0145

```

: 370      0751 1 END
: 371      0752 1
: 372      0753 0 ELUDOM
```

FIND
V04-000

N 10
16-Sep-1984 02:18:11
14-Sep-1984 12:46:39

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[MTAACP.SRC]FIND.B32;1 Page 11
(3)

PSECT SUMMARY

Name	Bytes	Attributes
\$CODE\$	331 NOVEC,NOWRT, RD ,	EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	18	0	1000	00:01.9

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:FIND/OBJ=OBJ\$:FIND MSRC\$:FIND/UPDATE=(ENH\$:FIND)

: Size: 331 code + 0 data bytes
: Run Time: 00:11.2
: Elapsed Time: 00:36.6
: Lines/CPU Min: 4037
: Lexemes/CPU-Min: 22064
: Memory Used: 147 pages
: Compilation Complete

0254 AH-BT13A-SE
VAX/VMS V4.0

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